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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/676,895	10/02/2000	Tetsuya Mashiko	SANSH5.890A	5133	
20995	7590 01/27/2003				
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET			EXAMINER .		
FOURTEEN	TH FLOOR		SWINEHART, EDWIN L		
IRVINE, CA	92614		ART UNIT	PAPER NUMBER	
			3617		
			DATE MAILED: 01/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N . Applicant(s)					
Office Action Summary						
· · · · · · · · · · · · · · · · · · ·	Examiner		Group Art Unit			
—The MAILING DATE of this communication appears	on the cover sheet be	eneath the co	rrespondence ad	idress		
Period for Reply	2					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO I OF THIS COMMUNICATION.	EXPIRE	MONTH(S)	FROM THE MAIL	ING DATE		
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, ex Failure to reply within the set or extended period for reply will, by statute, 	within the statutory minimu	m of thirty (30) o	days will be considere	d timely.		
Status	••		(00 0.0.0. 3 700	7.		
Responsive to communication(s) filed on	3	_				
☐ This action is FINAL .				•		
 Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 C 	formal matters, prose C.D. 1 1; 453 O.G. 213.	cution as to 1	the merits is clos	e d in		
Disp sition of Claims				•		
Of the above claim(s) 4-27	is/are p	is/are pending in the application.				
Of the above claim(s)	is/are w	is/are withdrawn from consideration.				
(Claim(s) 1, 2, 4-19 and 22-27 (Claim(s) 20 and 21	is/are al	is/are allowed.				
Claim(s) 20 and 21	is/are rejected.					
☐ Claim(s)						
☐ Claim(s)				r election		
Application Papers		requiren				
☐ See the attached Notice of Draftsperson's Patent Drawing Re	eview, PTO-948.					
The proposed drawing correction, filed on 1/7/02 is Xapproved disapproved.						
☐ The drawing(s) filed on is/are objected to by the Examiner.						
☐ The specification is objected to by the Examiner.						
☐ The oath or declaration is objected to by the Examiner.						
Pri rity under 35 U.S.C. § 119 (a)-(d)						
 □ Acknowledgment is made of a claim for foreign priority under □ All □ Some* □ None of the CERTIFIED copies of the preceived. 	35 U.S.C. § 11 9(a)-(d priority documents have). e been				
received in Application No. (Series Code/Serial Number)						
$\hfill\Box$ received in this national stage application from the Internal	tional Bureau (PCT Ru	e 1 7.2(a)).	 • ,			
*Certified copies not received:			 •			
Attachment(s)			•			
Information Disclosure Statement(s), PTO-1449, Paper No(s).		rview Summa	ry, PTO-413			
☐ Notice of Reference(s) Cited, PTO-892			Pat nt Application	n, PTO-152		
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948						
Office Act	tion Summary					

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

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DETAILED ACTION

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakase et al. in view of Isaka.

Nakase et al. teaches the field of the invention, including a twin overhead cam engine having a cylinder bank inclined to one side of a center plane. Nakase et al. fails to disclose more intake passages than exhaust passages, as is considered to have been old and well known in the art.

Isaka teaches a five valve head, in which there are provided three intake valves an passages, and two exhaust valves and passages.

It would have been obvious to one of ordinary skill in the art at the time of the invention to provide three intake valves and passages and two exhaust valves and passages to the head of Nakase et al. as taught by Isaka.

Such a combination would have been desirable at the time of the invention was made so as to provide for improved charging efficiency.

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- 3. Re the newly added limitation of the rod journals lying on one side of the center plane opposite the camshafts, such fails to define any specific structure and/or arrangement so as to define over Nakase et al. The illustrated position of the rod journal 44 of Nakase et al. will move from one side of the center plane to the other as such rotates, and therefore such will meet the claim-limitation at some point during its rotation.
- 4. Applicant's arguments filed 1/6/2003 have been fully considered and have been answered within the body of the rejection.
- 5. Claims 1,2,4-19 and 22-27 are allowed.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Papers relating to this application may be submitted to Technology Center 3600 by facsimile transmission. The submission of such papers by facsimile transmission must comply with the notice published in the Official Gazette, **1096 OG 30** (November 15, 1989). The Fax Center number is (703)-872-9326.

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- 8. Any inquiry concerning this communication should be directed to Ed L. Swinehart whose telephone number is (703)-308-2566.
- 9. Any inquiry of a general nature or relating to the status of the application should be directed to the Technology Center 3600 receptionist whose telephone number is (703)-308-1113.

January 23, 2003

Ed L. Swinehart Primary Examiner Art Unit 3617